

**Notice of Allowability**

Application No.

10/620,477

Examiner

Qutub Ghulamali

Applicant(s)

KIM ET AL.

Art Unit

2637

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/22/2005.
2. ☒ The allowed claim(s) is/are 1, 3-10, 12-25 which are renumbered as claims 1, 2-9, 10-23 respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 7/23/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

  
**JEAN B. CORRIELUS**  
**PRIMARY EXAMINER**

12-2-05

## **DETAILED ACTION**

### ***Acknowledgment***

1. This Office Action is responsive to the Remarks/Amendment filed on 11/22/2005.

### ***Response to Remarks/Amendment***

2. Applicant's amendment/remarks filed 11/22/2005, have been fully considered and as a result claims 1, 3-10 and 12-25 are now indicated allowable.

### ***Reason for Allowance***

3. Applicant's arguments, see page 6, filed November 22, 2005, with respect to the rejection of claims 26-28 and 30-35 have been fully considered and are persuasive in light of the applicant canceling of claims 26-28 and 30-35 without prejudice. The rejection of claims 26-28 and 30-35, therefore, has been withdrawn.

4. Claims 1, 3-10 and 12-25 are allowed.

5. The following is an examiner's statement of reasons for allowance:

With reference to claims 1, 10 and 20, the prior art of record in combination with other claimed limitations, neither teaches nor renders obvious a system for processing digital signals comprising:

a signal conditioning filter comprising a first stage for mitigating degradations of a digital signal that occur according to a first time scale, the first stage comprising a linear tapped-delay line

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filter tuned to the first time scale, the first time scale comprising a fraction of the period at which the symbols are propagated, and a second stage for removing signal distortions that occur according to a second time scale, the second stage comprising a linear tapped-delay line filter tuned to the second time scale, the second time scale being different than the first time scale and comprising a magnitude at least equal to the period at which the symbols are propagated; and a signal integrity unit for controlling the signal conditioning filter by maximizing fidelity of the digital signals.

Such limitations, as recited in independent claims 1, 10 and 20, are neither anticipated nor rendered obvious by the prior art of record.

Claims 3-9, 12-19 and 21-25, are allowed by virtue of their dependency to claims highlighted above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Contact Information***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qutub Ghulamali whose telephone number is (571) 272-3014. The examiner can normally be reached on Monday-Friday from 8:00AM - 5:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



QG.

November 29, 2005.



JEAN B. CORRIELUS  
PRIMARY EXAMINER  
12-2-05